

U.S.S.N. 10,636,076

Claim Amendments

Please amend claims as 1, 3, 5, 13, 15, 17, and 18 as follows:

Please cancel claims 4, 6-8, 10-12, and 14 as follows:

Please add new claims 21-28 as follows:

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Listing of Claims

1. (currently amended) An apparatus for visualization of conditions in the interior of at least one process chamber, comprising:

an inspection chamber ~~for positioneding in substantially visually unobstructed proximity to~~ horizontally adjacent the at least one process chamber; and

a camera provided in said inspection chamber, said for camera mounted on a camera support, said cameras support adapted to horizontally bi-directionally move within said inspection chamber to position said camera to viewing of the interior of the at least one process chamber.

2. (original) The apparatus of claim 1 wherein said camera comprises a charge coupled device.

3. (currently amended) The apparatus of claim 1 further comprising a motion actuating mechanism operably engaging said camera ~~for support,~~ said actuating mechanism adapted to horizontally bi-directionally moveing said camera support in said

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inspection chamber.

4. (canceled)

5. (currently amended) The apparatus of claim 1 further comprising an electrostatic catch head carried by said camera for, said electrostatic catch head adapted to removeing particles from said inspection chamber.

claims 6-8 (canceled)

9. (original) The apparatus of claim 1 further comprising a recording device operably connected to said camera for recording images from said camera.

Claims 10-12 (canceled)

13. (currently amended) An apparatus for visualization of conditions in multiple process chambers of an integrated cluster tool having a central transfer chamber, comprising:

an inspection chamber for positioning adjacent to the transfer chamber; and

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a camera assembly having a camera provided in said inspection chamber for viewing of the interior of the process chambers;

wherein said camera assembly comprises an elongated camera support and a motion actuating mechanism operably engaging said camera support for bidirectional movement of said camera support in said inspection chamber, and wherein said camera is carried by said camera support.

14. (canceled)

15. (currently amended) The apparatus of claim 14 further comprising an electrostatic catch head carried by said camera support ~~for~~ adapted to removeing particles from said inspection chamber.

16. (original) The apparatus of claim 13 wherein said camera comprises a charge coupled device.

17. (currently amended) An apparatus for visualization of conditions in multiple process chambers of an integrated cluster

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tool having a central transfer chamber, comprising:

an inspection chamber ~~for~~ positioned adjacent to the transfer chamber;

a camera assembly having a camera provided in said inspection chamber ~~for~~ said camera mounted on a camera support adapted to horizontally bi-directionally move within said inspection chamber to viewing of the interior of the process chambers;

an electrostatic catch head carried by said camera assembly, said electrostatic catch head adapted to remove particles from said inspection chamber; and

a voltage source operably connected to said catch head for imparting an electrostatic charge to said catch head.

18. (currently amended) The apparatus of claim 17 wherein said camera ~~assembly~~ support comprises an elongated camera support and a motion actuating mechanism operably engaging said camera support for said horizontal bidirectional movement of said camera support in said inspection chamber, and wherein said camera and

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said catch head are carried by said camera support.

19. (original) The apparatus of claim 17 wherein said camera comprises a charge coupled device.

20. (original) The apparatus of claim 17 further comprising a recording device operably connected to said camera for recording images from said camera.

21. (new) The apparatus of claim 1, wherein said camera comprises a light source.

22. (new) The apparatus of claim 1 wherein said camera is a panoramic camera.

23. (new) The apparatus of claim 3, wherein said camera assembly comprises an elongated camera support.

24. (new) The apparatus of claim 13, wherein said camera comprises a light source.

25. (new) The apparatus of claim 13, wherein said camera is a panoramic camera.

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26. (new) The apparatus of claim 13, wherein said camera comprises a light source.

27. (new) The apparatus of claim 13 wherein said camera is a panoramic camera.

28. (new) The apparatus of claim 17, wherein said camera comprises a light source.